NEW EQUIPMENT & SYSTEM APPROVAL PROFORMA

Ref: 08-08-11-076

Note: the prompts given below are only a guide to the information required for approval. Dependent on the type of equipment or system that requires approval delete any section that is not applicable or include additional information if necessary. Mandatory fields are marked with an asterisk (*).

1 **Equipment or System to be approved** *

UIC60 Fishplate and UIC60/AS60 Junction Fishplate – Revised March 2008

2 **Originator** *

Name: David Prentice Company: ARTC

3 **Introduction** *

Due to the use of UIC60 rail components in turnouts fishplates to join UIC60 to AS60kg and UIC60 rail together are required. The designs are generally based on a AS60kg rail fishplate with minor alterations made to suit the UIC profile.

4 **Determination of Need** *

The UIC60 fishplates and UIC60/AS60 junction fishplates are required wherever UIC rail components are used.

5 **Significant Change or Not** *(as determined by the Manager Standards)* *

This change in equipment or system is assessed as MINOR

6 **Review Panel** *(as determined by the Manager Standards)* *

- Manager Standards – John Furness
- Civil Standards and Technical Services Engineer – Tim Calver
- Senior Track & Civil Engineer – Ian Domleo

7 **Performance and Suitability**

The UIC fishplates have been designed in accordance with AS1085.2 to material grade K1042/K1045 by Westray Engineering. Details are included in Drawings CP710 and CP712.

8 **Approval** *

The UIC60/UIC60 fishplates and UIC60/AS60kg junction fishplates are approved for use by ARTC network wide.

9 **Conditions of Approval** *

No conditions

10	**Does the Originator accept the additional Conditions of Approval as set by the Review Panel:**	Yes	☐	No	☐	N/A	☒

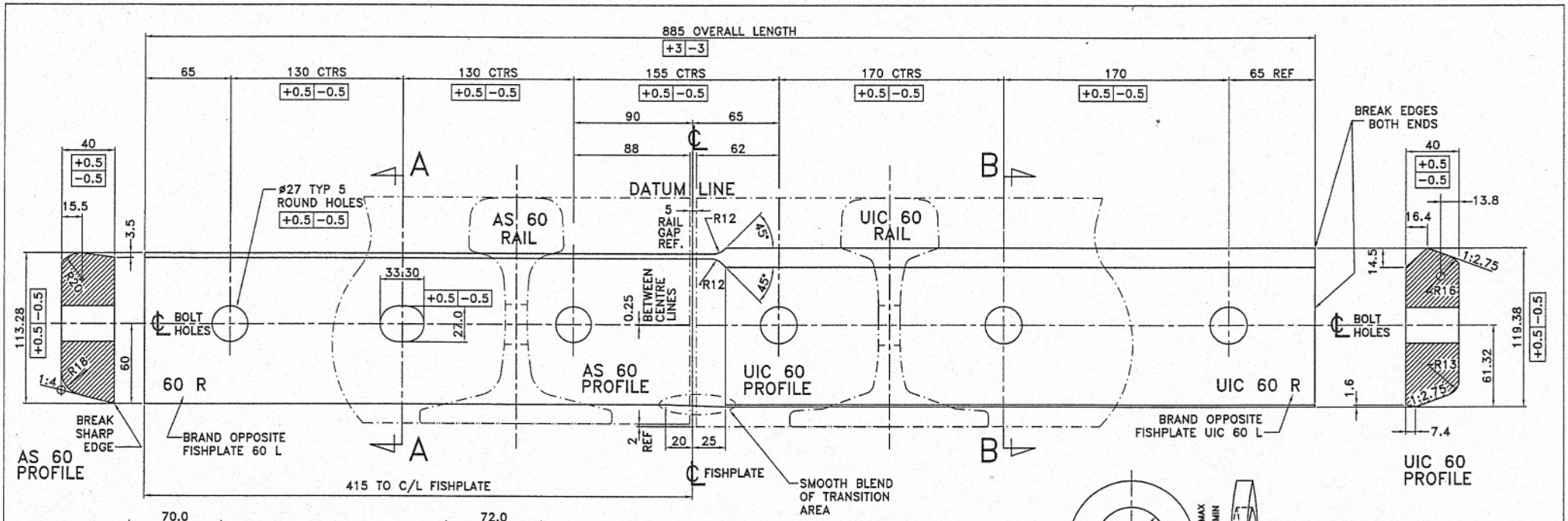
11 **Sign off** ***ARTC office use only***

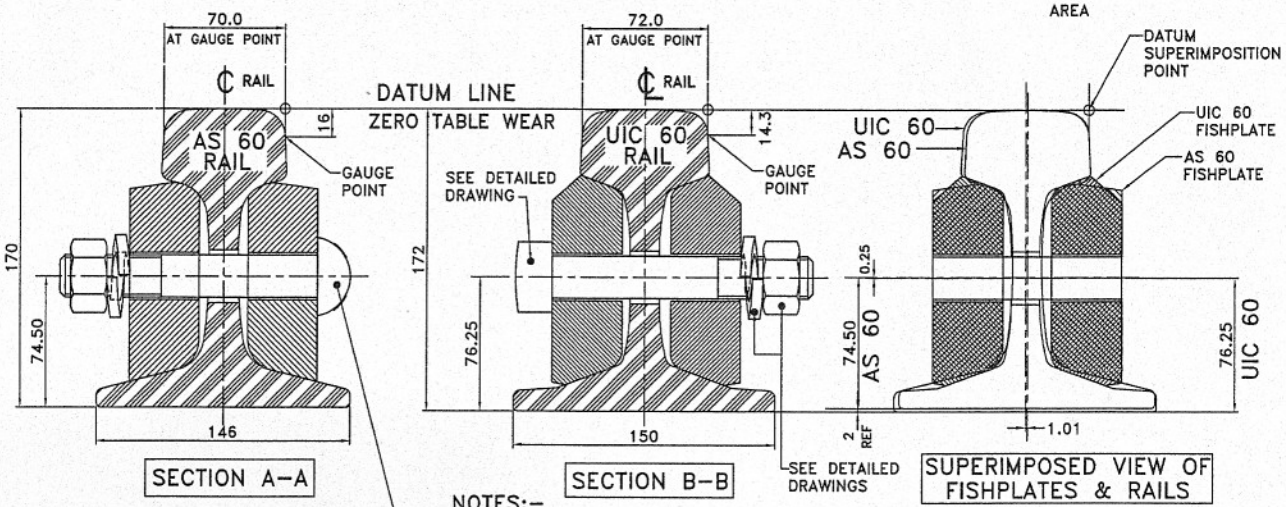
Review Panel:

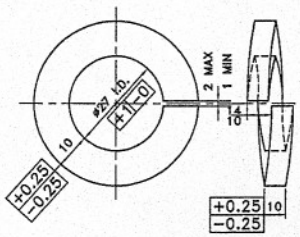
John Furness Date: 2/4/08

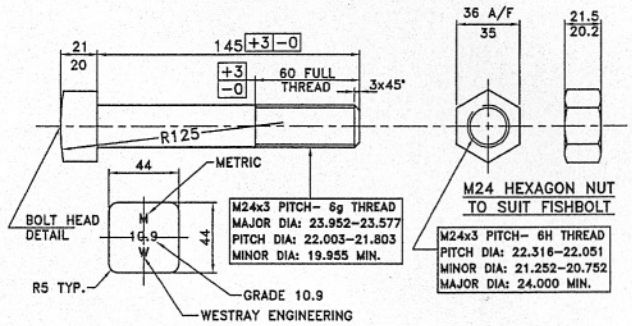
Tim Calver Date: 28/3/08

Ian Domleo Date: 28/3/08









M24x145 C.H.O.N. FISHBOLT
GRADE: 8.8 TO AS 1085 PART 4

NOTES:-

1. MATERIAL GRADE K1042/K1045 OR EQUIVALENT, TO AS1085.2
2. BRANDING AT EACH END TO INDICATE DESIGNATION.
3. CONNECTING FISHPLATES ARE DESIGNATED AS LEFT & RIGHT HAND
4. AS 60 Kg FISHPLATE SHOWN WITH TWO ROUND AND ONE OVAL HOLES IN COMBINATION WITH CUP HEAD OVAL NECK FISHBOLTS.
5. SIX ROUND HOLES MAY BE USED IN COMBINATION WITH M24x145 SQUARE HEADED BOLT AT THE DISCRETION OF THE CUSTOMER.
6. REMOVE ALL SHARP EDGES AND BURRS.
7. BOTH RAILS ASSUMED TO BE NEW (ZERO TABLE WEAR).
8. DIMENSIONAL TOLERANCES:
   - I) CAMBER: +/-1 mm
   - II) LOCALISED DEFORMATION ON FISHING SURFACES: +/-0.5 mm.
   - III) ALL OTHER DIMENSIONS: +/-0.5mm

SYMBOL	APPVD.	REVISION	DATE

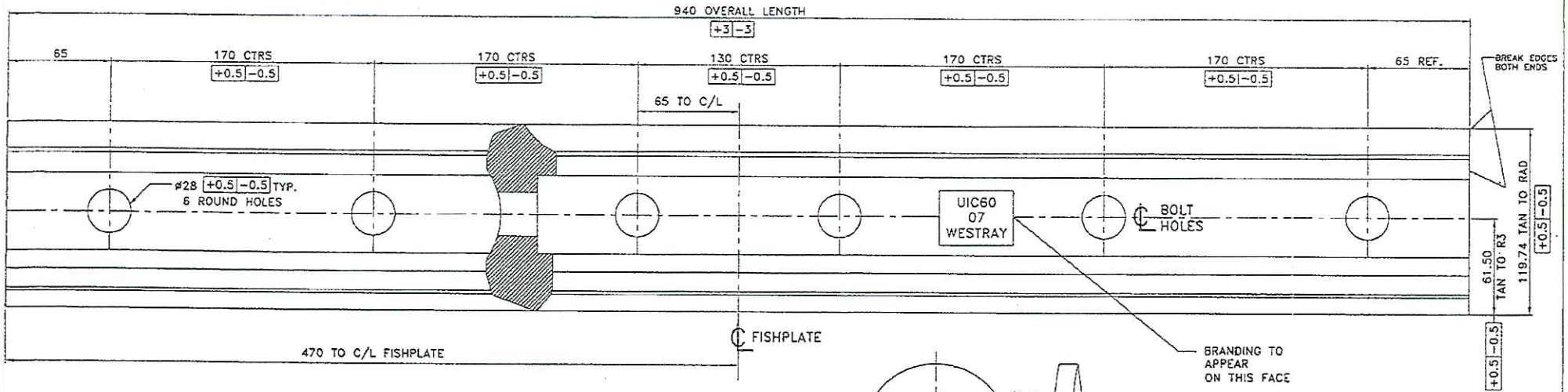
APPROVED BY:
SIGNATURE:
TITLE:
DATE:

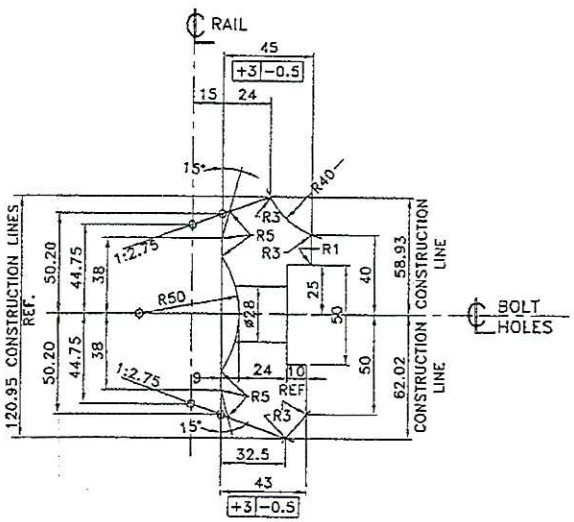
WESTRAY ENGINEERING
17-23 CAPT. COOK DRIVE CARINGBAH 2229
SYDNEY AUSTRALIA

MACHINED JUNCTION FISHPLATES: AS60-UIC60

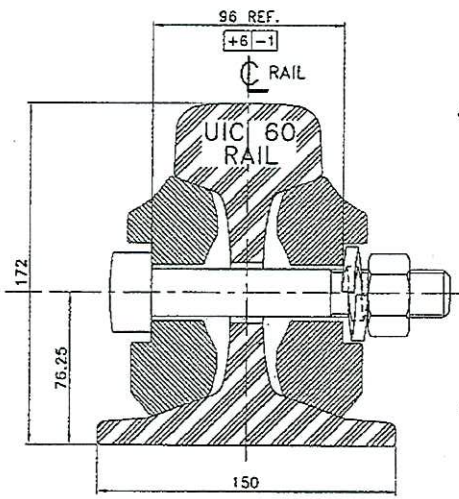
DO NOT SCALE DRAWING

DRN.	L.T.	SCALE	FULL
CHD.		DRAWING No.	
APP.			
DATE	18.06.07		CP710

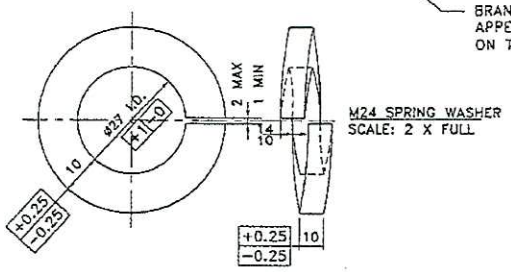




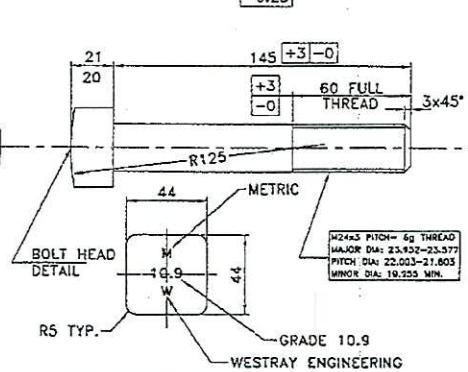
CROSS-SECTION OF UIC 60 FISHPLATE



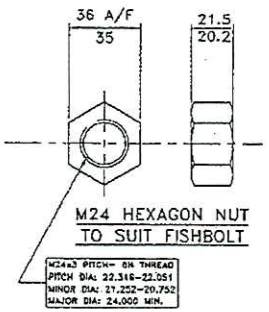
ASSEMBLY OF RAIL & FISHPLATES



M24 SPRING WASHER
SCALE: 2 X FULL



M24 SQUARE HEAD FISHBOLT
GRADE 10.9



M24 HEXAGON NUT
TO SUIT FISHBOLT

NOTES:-

1. MATERIAL GRADE K1040/K1042/K1045 OR EQUIVALENT, TO AS1085.2
2. BRANDING TO INDICATE RAIL SIZE DESIGNATION/ YEAR OF MANUFACTURE & MANUFACTURER'S IDENTIFICATION.
3. PROFILE & DIMENSIONAL TOLERANCES TO AS1085.2-2002 UNLESS SPECIFIED OTHERWISE.

APPROVED BY:
SIGNATURE:
TITLE:
DATE:

SYMBOL	APPVD.	REVISION	DATE

WESTRAY ENGINEERING
17-33 CAPT. COOK DRIVE CARINGBAH 2229
SYDNEY AUSTRALIA

DO NOT SCALE DRAWING
DRW. L.T. SCALE FULL
CHD.
DRAWING No.

PROFILE FOR UIC60 + 6-ROUND HOLE FISHPLATE SHOWING FISHBOLT, NUT & SPRING WASHER.

APP.
DATE 31.05.07

CP712